

Abstract

The present invention relates to a type of battery, in particular lithium ion secondary battery, where such battery include a positive electrode, a negative electrode, electrolyte, and a separator, where the positive and negative electrodes are smear with a mixture made from active ingredient, conductive paste and an additive paste, said mixture smear on the metal conductor. The positive terminal material preferably made from aluminum foil, and the negative terminal material preferably made from copper foil. The positive electrode conductive paste preferably made from aluminum powder or aluminum fiber, and the conductive paste for the negative electrode preferably made from copper powder or copper fiber. The resulting lithium ion secondary battery has lower internal resistance and better cycling characteristics, suitable for high rate discharge.